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Titolo	Pakistan : can the United States secure an insecure state? // C. Christine Fair ... [et al.]
Pubbl/distr/stampa	Santa Monica, CA, : RAND, c2010
ISBN	1-282-79722-0 9786612797224 0-8330-4870-8
Edizione	[1st ed.]
Descrizione fisica	1 online resource (261 p.)
Collana	Rand Corporation monograph series ; ; MG-910-AF
Altri autori (Persone)	FairC. Christine
Disciplina	327.7305491
Soggetti	Military assistance, American - Pakistan Internal security - Pakistan United States Foreign relations Pakistan Pakistan Foreign relations United States United States Military relations Pakistan Pakistan Military relations United States
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"MG-910-AF"--P. [4] of cover. "RAND Project Air Force."
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Nota di contenuto	Cover; Preface; Contents; Figures; Tables; Summary; Acknowledgments; Abbreviations; CHAPTER ONE - Introduction; Purpose; Organization; Research Approach; CHAPTER TWO - Pakistan's Future: Is Past Prologue?; Failed Constitutionalism and Governance; Central Governance in Dispute; The Center's Relations with the Provinces and Other Areas; The Army: Guarantor of an Insecure State?; The Army's Preeminent Role in Decision making; Regional Security and Risk Taking; Pakistan's Nuclear Weapons: Sources of Security and Insecurity; Pakistan's Nuclear Weapons; The Proliferation Challenges Organization and Security of Pakistan's Nuclear Infrastructure International Significance of Pakistan's Nuclear Challenges; Pakistan's Problematic Political Landscape; Principal Political Parties; Pakistan's Internal Security Challenges; Islamism, Militancy, and the State; The Post-9/11 Militant Landscape; Demographic Trends; Population Growth; Urbanization; The Economy; Economic Growth; Inflation and

Fiscal Balance; Employment, Income Growth, and Poverty; Economic Outlook; Social Development; Education; Health; Concluding Remarks
 CHAPTER THREE - Pakistan's Ability to Mitigate Sources of Insecurity
 The Constitution and Civil-Military Relations; Radical Reform Needed for Pakistan's Political Parties; Reasons for Optimism?; Taming the Military?; Countering Internal Security Threats; The Strategic Use of Militants; The Pakistan Government's Ability to Tackle the Militant Threat; Pakistan's Foreign Policy; Foreign Policy Objectives; Foreign Policymaking; Pakistan's Alliances and Regional Insecurities; Economic Policies; Macroeconomic Policies; Government Defense Spending and Other Military Revenues
 Regulatory Policies and Privatization Policies for Social Development; Population Policy; Health Policy; Education Policy; Conclusions;
 CHAPTER FOUR - How Effective Have U.S. Policies Toward Pakistan Been?; Divergent Priorities and Conflicted Aims: U.S. and Pakistani Objectives; U.S. Objectives; Pakistan's Objectives; The Problem of Conflicting Goals; Engaging Pakistan: U.S. Policy Instruments and Their Effectiveness; Security Assistance Programs; Military Reimbursement; Arms Sales and Military Training; The Security Development Plan; Other Assistance for Internal Security
 Assistance That Is Unrelated to Security Economic and Development Assistance; Non-U.S. Economic and Development Assistance to Pakistan; U.S. Public Diplomacy and Democracy Promotion Efforts; The Downsides of "Conditionality"; The Downsides of U.S. Support for Individual Pakistani Leaders; Conclusions; CHAPTER FIVE - U.S. Policy Options for Pakistan; Learn the Lessons of the Past; A New Strategy for Pakistan; Develop Alternative Supply Routes for Operations in Afghanistan; Work with Pakistan's Key Supporters to Develop Cooperative Policies; Forge a Strategic Dialogue with Pakistan
 Rebalance U.S. Assistance to Increase Support to Pakistan's Civilian Institutions and People

Sommario/riassunto

Describing Pakistan's likely future course, this book seeks to inform U. S. efforts to achieve an effective foreign policy strategy toward the country. The book forms an empirical analysis of developments in Pakistan and an assessment of the effectiveness of U.S. policy as of August 2009. Drawing on interviews of elites, polling data, and statistical data on Pakistan's armed forces, the book presents a political and political-military analysis. Primary data and analyses from Pakistanis and international economic organizations are used in the book's demographic and economic analyses. The book assesses Pakistan's own policies, based on similar sources, on government documents, and on the authors' close reading of the assessments of several outside observers. The book also discusses U.S. policy regarding Pakistan, which was based on interviews with U.S. policymakers and on U.S. policy documents. The policy recommendations are based on an assessment of the findings in all these areas. The book concludes with a number of recommendations for the U.S. government and the U.S. Air Force concerning how the United States could forge a broad yet effective relationship with this complicated state. --Publisher description.

2. Record Nr.	UNINA9910503010503321
Titolo	Advanced X-ray Imaging of Electrochemical Energy Materials and Devices // edited by Jiajun Wang
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2021
ISBN	981-16-5328-3
Edizione	[1st ed. 2021.]
Descrizione fisica	1 online resource (252 pages)
Collana	Chemistry and Materials Science Series
Disciplina	543.08586
Soggetti	Materials - Analysis Electrochemistry Materials Catalysis Force and energy Characterization and Analytical Technique Materials for Energy and Catalysis
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	A category of synchrotron X-ray imaging methods -- Practical basics and applications of X-ray tomography -- Advanced transmission X-ray microscopy for energy materials and devices -- Principles of transmission X-ray microscopy and its applications in battery study -- Coherent diffractive imaging and its application in energy materials and devices study -- Synchrotron radiation based X-ray fluorescence imaging -- Applications of soft X-ray spectromicroscopy in energy research from materials to batteries -- Principles and applications of industrial X-ray computed tomography -- Machine learning in X-ray imaging and microscopy applications -- In situ/operando synchrotron X-ray imaging techniques for energy-related applications.
Sommario/riassunto	This book comprehensively outlines synchrotron-based X-ray imaging technologies and their associated applications in gaining fundamental insights into the physical and chemical properties as well as reaction mechanisms of energy materials. In this book the major X-ray imaging technologies utilised, depending on research goals and sample specifications, are discussed. With X-ray imaging techniques, the

morphology, phase, lattice and strain information of energy materials in both 2D and 3D can be obtained in an intuitive way. In addition, due to the high penetration of X-rays, operando/in situ experiments can be designed to track the qualitative and quantitative changes of the samples during operation. This book will broaden the reader's view on X-ray imaging techniques and inspire new ideas and possibilities in energy materials research.
